

Gazali Agboola

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[GitHub](#) | [Portfolio](#)

PROFILE

A Ph.D. candidate in Data Science and Analytics (GPA: 3.95/4.0) with expertise in machine learning, statistical modeling, and large-scale data analysis. Skilled in Python, R, SQL, and advanced analytics for solving complex real-world problems. Proven ability to design, evaluate, and deploy machine learning models, extract actionable insights from structured and unstructured data, and communicate findings to both technical and non-technical audiences. Passionate about applying data science to enhance decision-making and create measurable business impact.

SKILLS

- **Programming Languages:** Python, R, SQL, SAS
- **ML & Statistics:** Predictive Modeling, Supervised & Unsupervised Learning, Deep Learning, NLP, Regression, Causal Inference, A/B Testing, Ensemble Learning
- **Financial Analysis & Tools:** Financial Modeling, Budgeting & Forecasting, FP&A, KPI Analysis, Variance Analysis
- **Data Visualization Tools:** Power BI, Tableau, IBM Cognos, Google Looker Studio, Matplotlib, Seaborn, Streamlit
- **Data Tools:** Advanced Microsoft Excel (Pivot Tables, VBA, Macros), Power BI, Tableau, SAP, Google Workspace
- **Big Data and Cloud:** GCP, AWS, Docker, BigQuery, PostgreSQL, MySQL, Git, Docker, Snowflake
- **Business Applications:** Forecasting, Risk Modeling, Consumer Behavior Analytics, KPI Tracking
- **Additional Skills:** Microsoft Office Suite (Excel (Advanced), Word, PowerPoint), SAP, Google Slides, Google Docs
- **Soft Skills:** Analytical reasoning, data storytelling, technical writing, cross-functional collaboration

EDUCATION

North Carolina Agricultural and Technical State
PhD. – Data Science and Analytics
GPA – 3.95/4.0

Greensboro, North Carolina,
Expected Graduation: May 2026

University Of Ilorin
Master of Science—Mathematics
GPA – 3.66/4.0

Ilorin, Kwara State, Nigeria
Dec. 2015

University Of Ilorin
Bachelor of Science—Mathematics
GPA – 3.54/4.0

Ilorin, Kwara State, Nigeria
July 2013

RELEVANT COURSES TAKEN

○ Machine Learning and Data Analytics	○ A/B Testing and Hypothesis Testing	○ Linear Algebra
○ Deep Learning Specialization	○ SQL & Big Data Analytics	○ Introduction to Probability Theory
○ Mathematical Modeling	○ Chat Prompts for Developers	○ Python for Data Science
○ Multivariate Statistics for Engineers	○ Big data analytics	○ Advanced Calculus
○ Natural Language Processing	○ Advanced Geospatial Analysis	○ Sequence to Sequence Models

WORK EXPERIENCE

North Carolina A&T State University
Data Science Research Assistant

Greensboro, North Carolina, USA
Aug. 2022 – Present

- Designed and implemented deep learning and statistical models for geospatial risk assessment, achieving up to 99.4% F1-score
- using ensemble ML techniques
- Built an Agentic AI-powered chatbot for disaster vulnerability analysis using OpenAI API, streamlit, and large-scale geospatial datasets
- Performed causal inference and experimental analysis for geospatial risk modeling, leveraging advanced statistical techniques and ensemble machine learning models to achieve a 99.4% AUC-ROC-score in landslide susceptibility prediction.
- Collaborated with cross-functional team to develop a knowledge graph-based disaster monitoring system, enabling timely alerts and facilitating efficient evacuation during flooding events

HP (HBCU FOWA Innovator Incubator)

Software Engineer

July. 2024– Sept. 2024

- Collaborated in agile product team to design and deploy Edu-Navigator chatbot using GPT-3.5 and Streamlit, presenting to HP senior executives
- Participated in product demos, refining requirements based on user feedback to improve functionality and adoption

FrieslandCampina WAMCO

Credit Control Manager

Ikeja, Lagos, Nigeria

Aug. 2021 – Dec. 2021

- Performed credit risk modeling, customer risk exposure analysis maintaining 15-day overdue below **10%** of total account receivables
- Automated financial and operational reporting, improving process efficiency across finance, sales, and supply chain units
- Partnered with supply chain teams and sales teams to analyze trends and generate business insights

Commercial Data Analyst

Feb. 2020 – July 2021

- Developed data visualization solutions (Power BI, SQL) for executive reporting, increasing decision speed and revenue by **20%**
- Built regression and ARIMA models for demand forecasting, improving forecast accuracy and reducing costs
- Automated incentive and sales reporting using Python, advanced Excel, and SQL, improving decision speed

Business Support Analyst

Jan. 2017 – Jan. 2020

- Collaborated with field sales team and business excellence team to optimize sales performance tracking systems
- Developed SOP documentation, sales data pipelines, and project status reports using SAP and Excel
- Monitored salesforce effectiveness metrics and managed the customer expansion database to support business growth

PROJECTS AND RESEARCH

- **Edu-Navigator Chatbot (HP FOWA):** Developed AI chatbot using GPT-3.5 for HBCU student navigation; built backend with Python and integrated UI via Streamlit
- **Credit Card Fraud Detection:** Designed unsupervised anomaly detection model using isolation forest model and statistical analysis
- **Deep learning models for computer vision:** Developed computer vision pipelines for segmentation of satellite images, applying CNN-based architectures like UNet and SwinUNet
- **Machine Learning Optimization:** Developed ensemble ML-model that achieved **99.4%** accuracy using spatial data
- **CarMax Hackathon:** Created interactive dashboards and metrics using Streamlit and SQL to evaluate vehicle appraisal patterns

AWARD AND HONORS

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|---|------|
| • HP Future of Work Academy (FOWA) winner | 2024 |
| • North Carolina ArcGIS Users' Graduate Academic Excellence Award | 2024 |
| • Thermo Fisher Scientific Innovation Challenge (First Position) | 2024 |

CERTIFICATIONS AND TRAINING

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|---|----------------------|------|
| • Deep Learning Specialization by DeepLearning.AI | Link | 2024 |
| • Transfer Learning for Images Using PyTorch: Essential | Link | 2024 |
| • IBM Data Analyst Professional Certificate | Link | 2025 |
| • Natural Language Processing in Python by | Link | 2025 |
| • Google Business Intelligence Professional Certificate | Link | 2025 |
| • Introduction to cybersecurity by Codepath | Link | 2024 |
| • Databases and SQL for Data Science with Python by IBM | Link | 2024 |

LEADERSHIP and LEADERSHIP

- President, ASPRS NCAT Chapter (2023–Present))
- Mentor Collective Ambassador (2023–Present)
- Member – International Society for Data Science and Analytics, NSBE, AGU, ASPRS, NCAUG